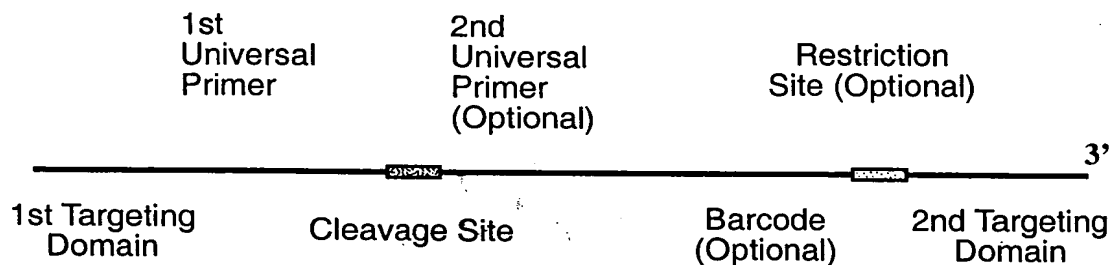


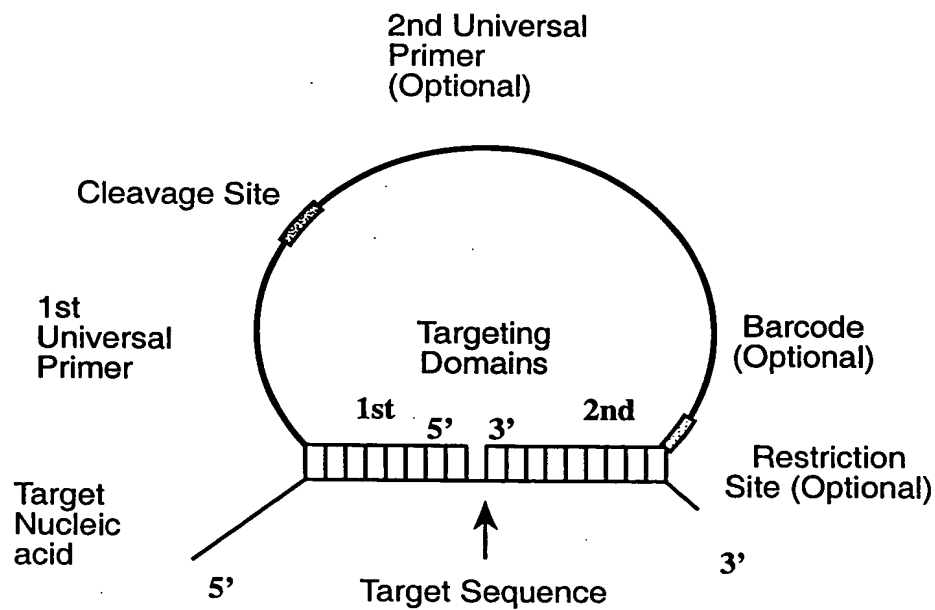
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### Pre-circle Probes



**FIG.\_1**

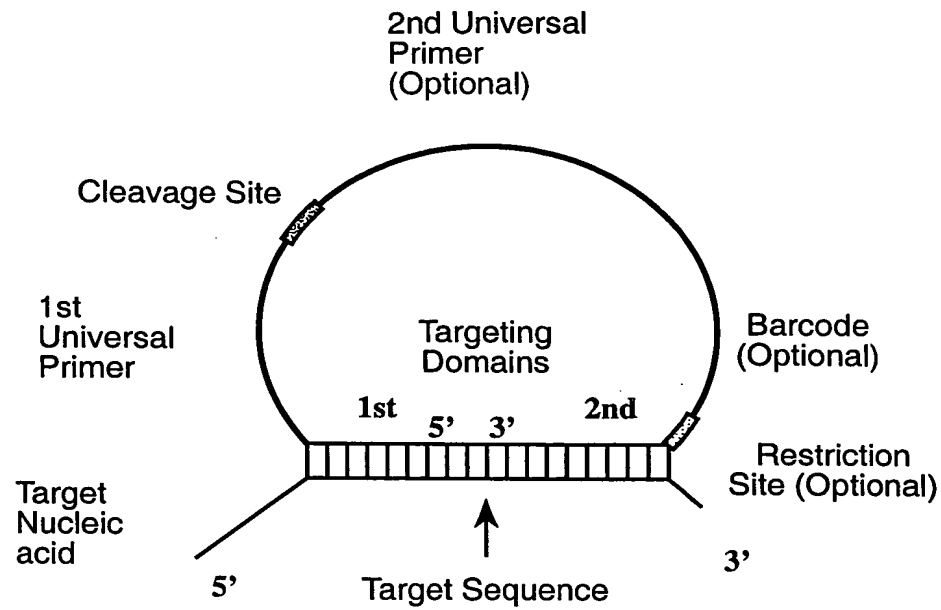
### Hybridization complex



**FIG.\_2A**

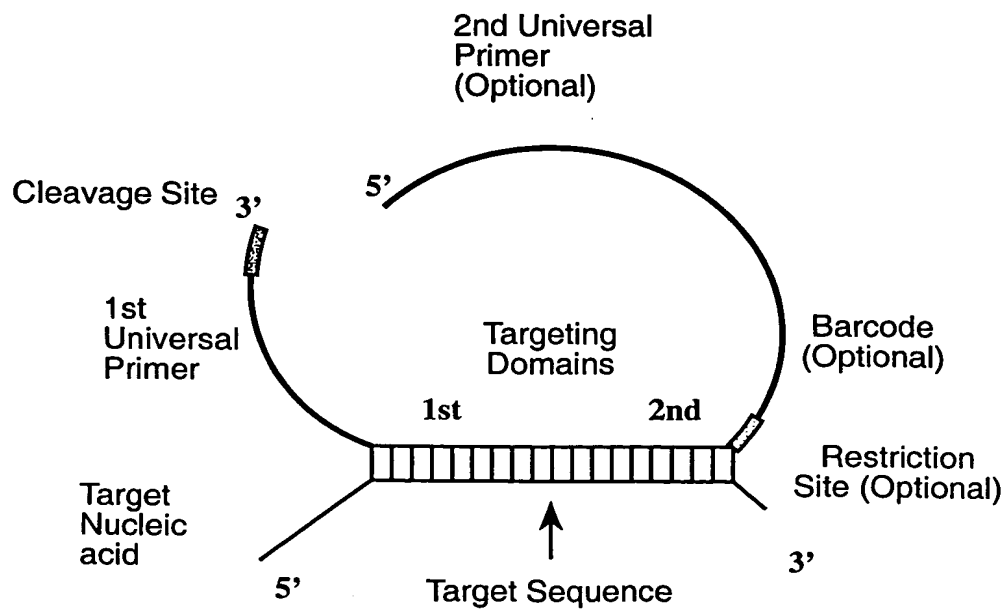
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### Circularizing the pre-circle probe



**FIG. 2B**

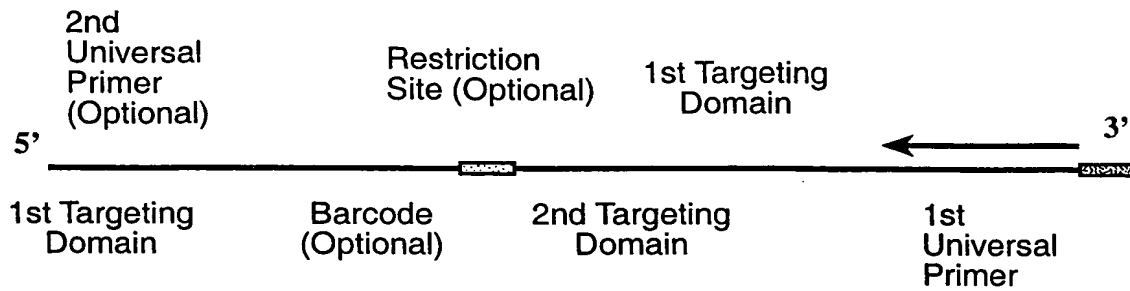
### Cleaving the circularized probes



**FIG. 2C**

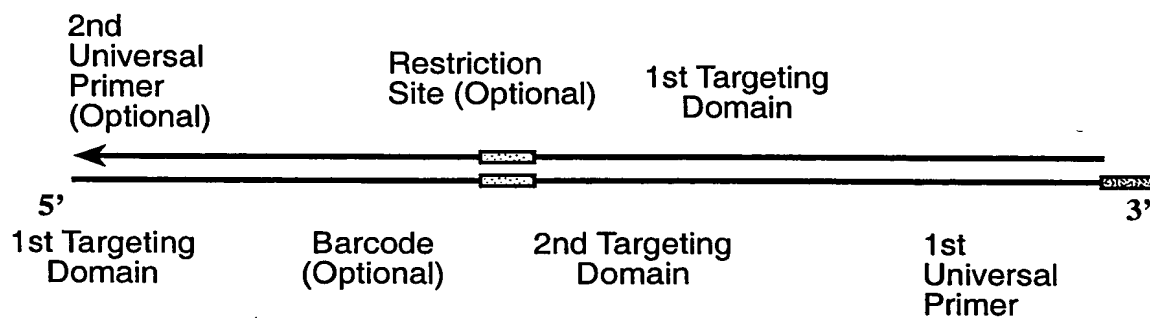
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### Annealing the 1st universal primer



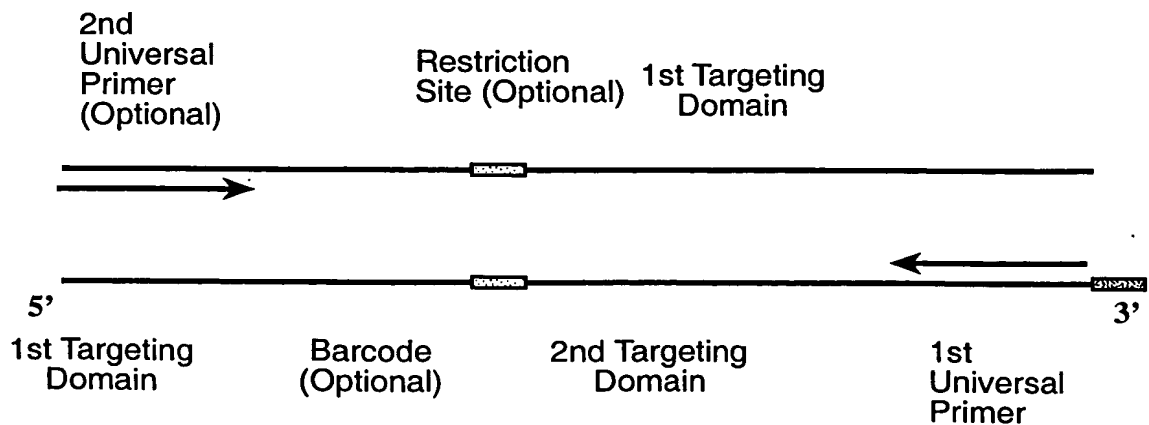
**FIG.\_2D**

### Extending the universal primer



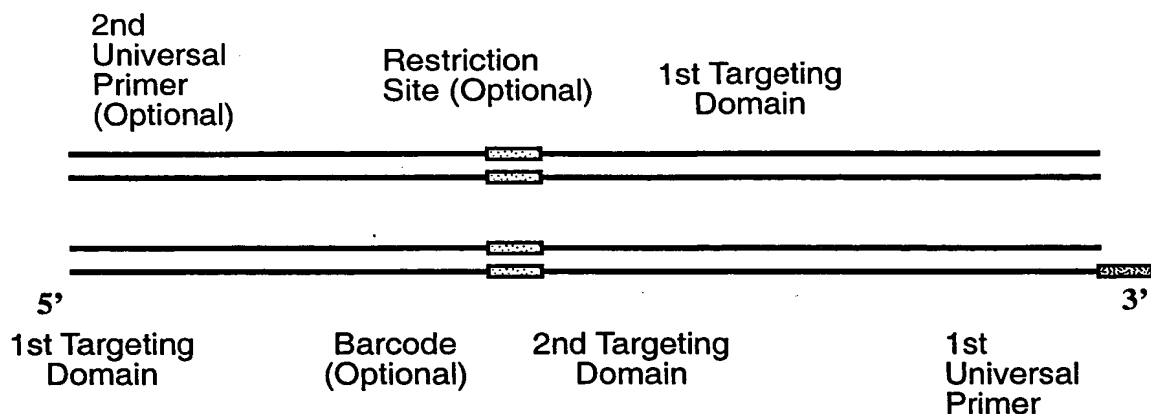
**FIG.\_2E**

### Annealing the 1st (and 2nd) universal primers



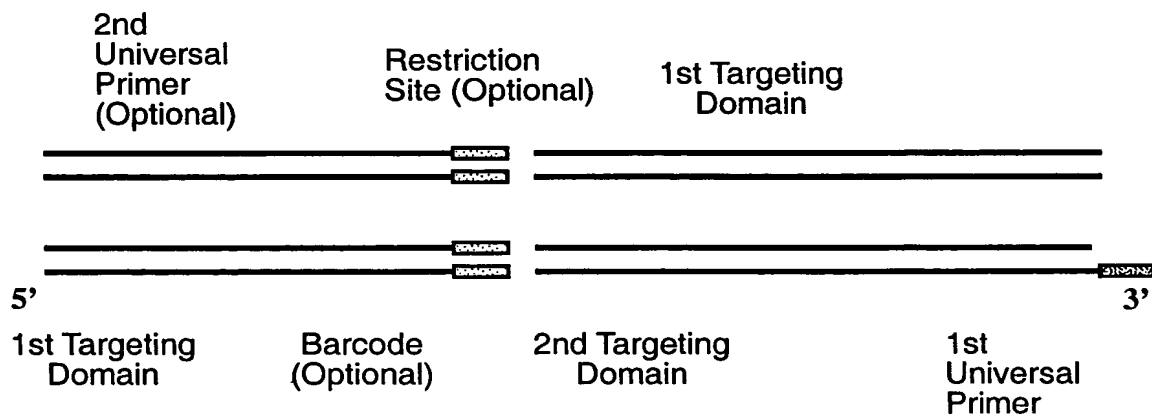
**FIG.\_2F**

### Amplifying to form amplicons

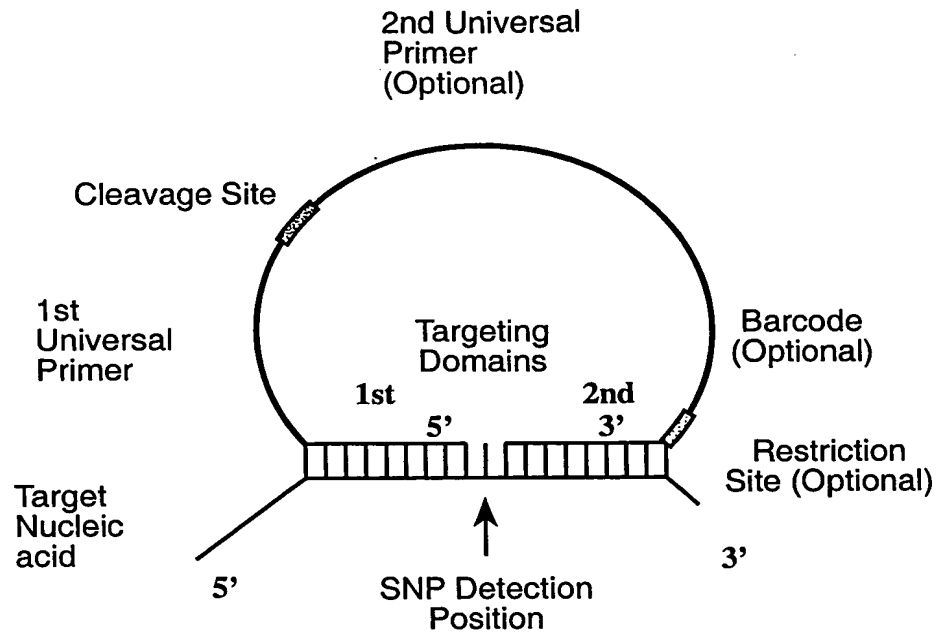


**FIG.\_2G**

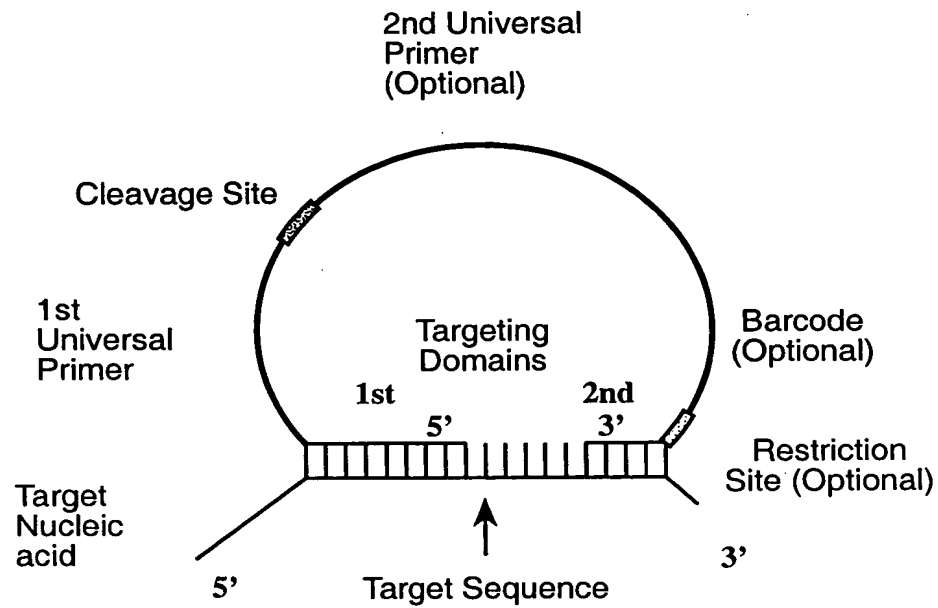
(Optional). Cut with restriction enzyme to release tags



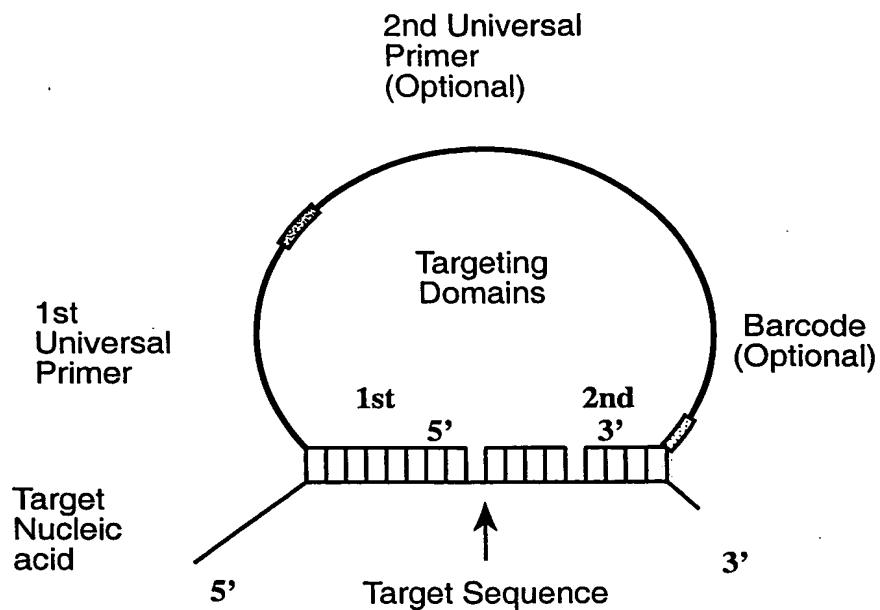
**FIG.\_2H**



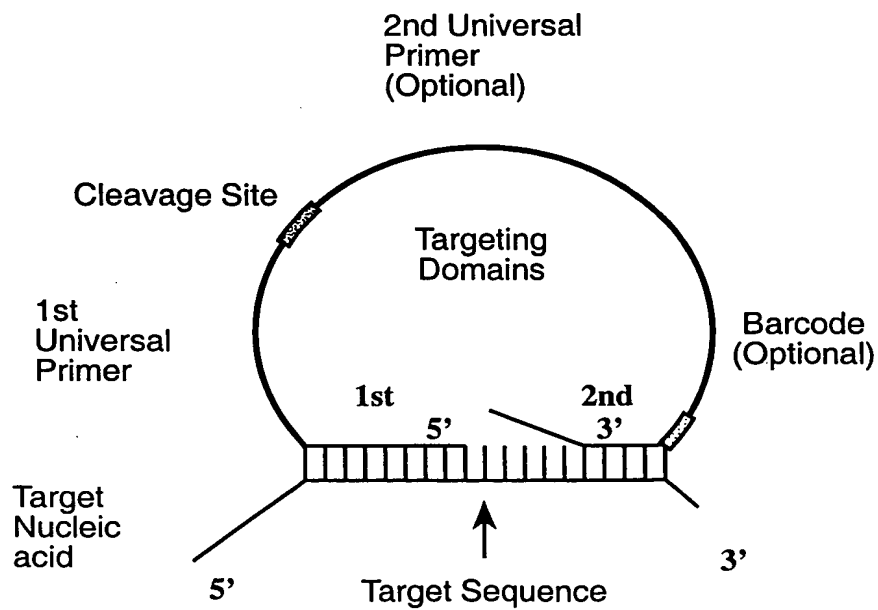
**FIG.\_3A**



**FIG.\_3B**

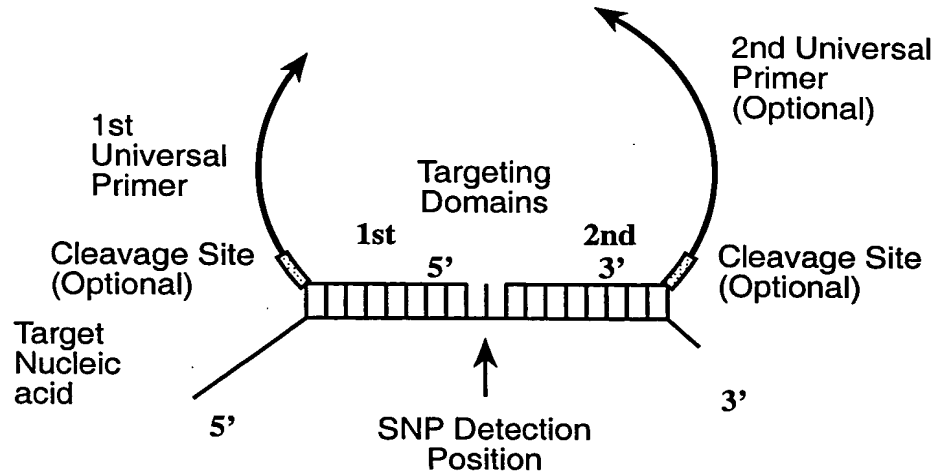


**FIG.\_3C**



**FIG.\_3D**

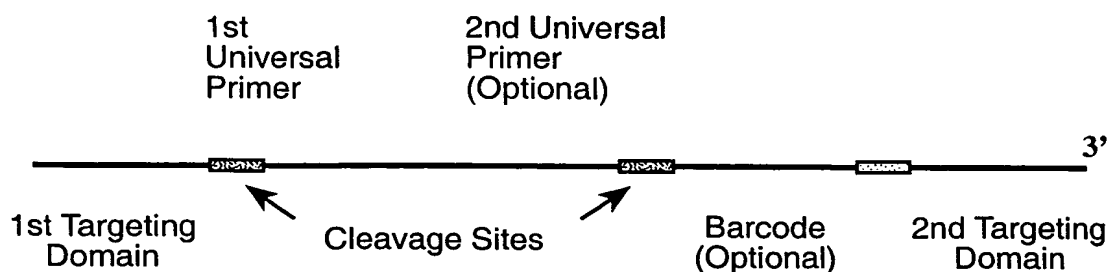
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**FIG. 4**

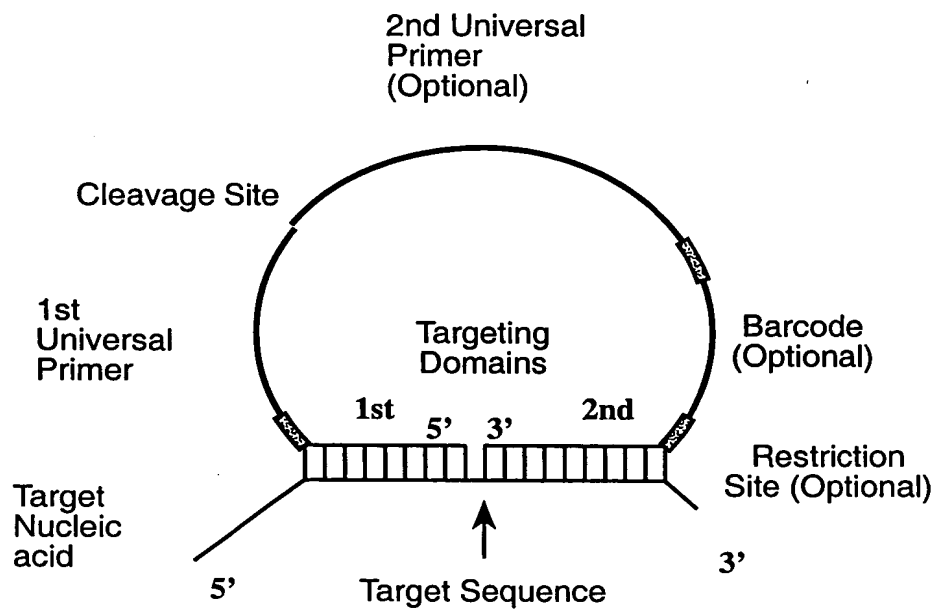
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### Pre circle Probes



**FIG.\_5A**

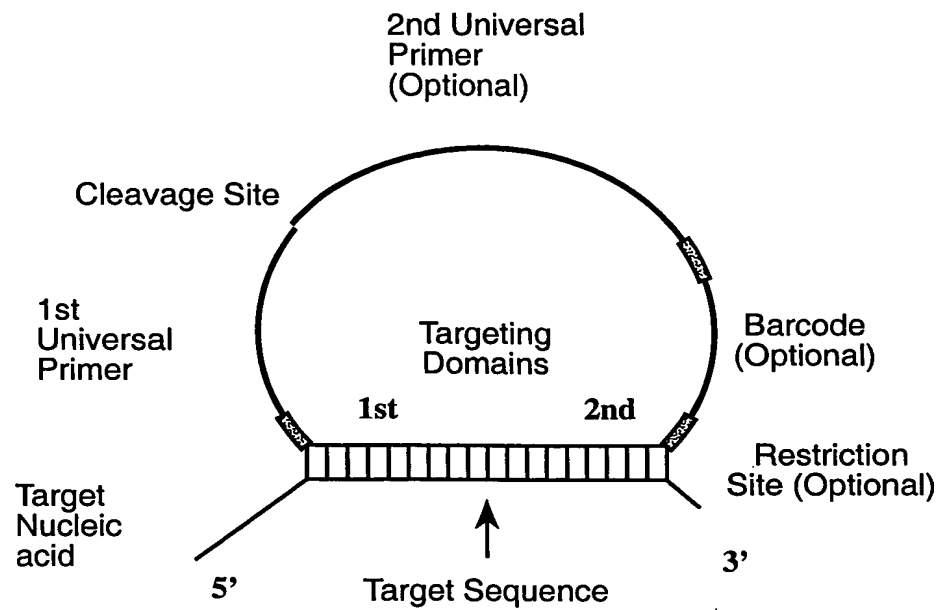
### Hybridization complex



**FIG.\_5B**

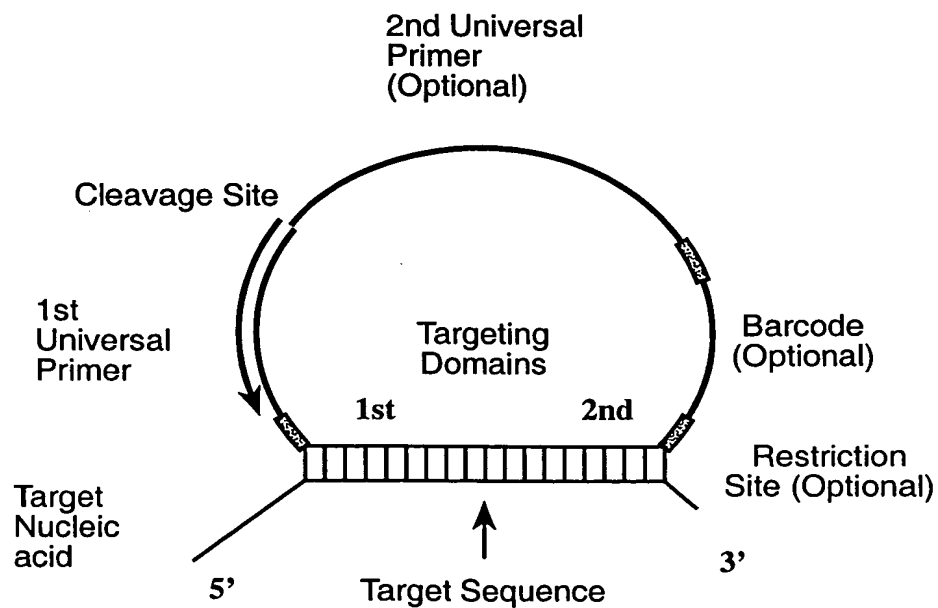


### Circularizing the pre-circle probe



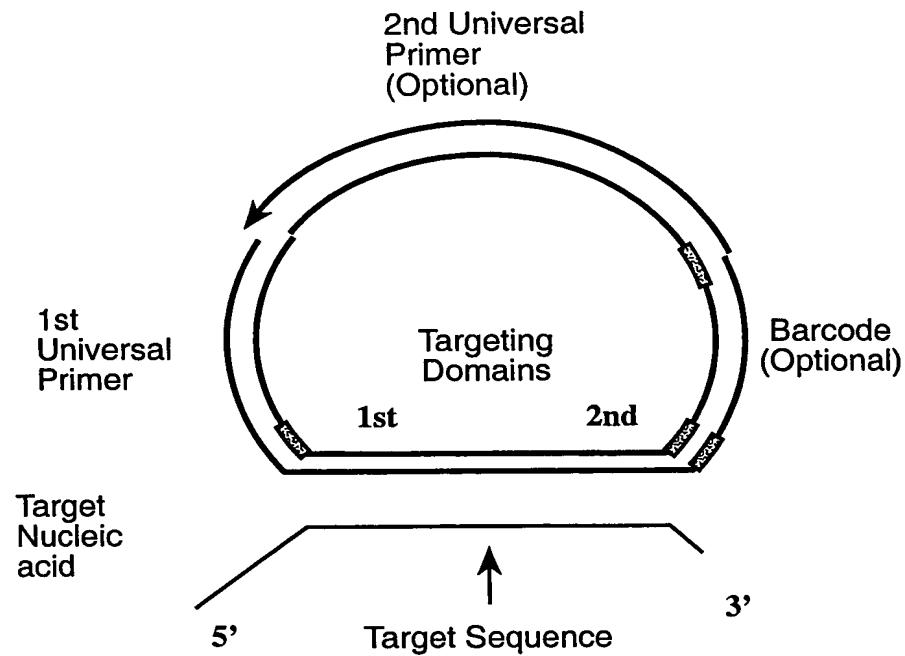
**FIG.\_5C**

### Annealing the first universal primer



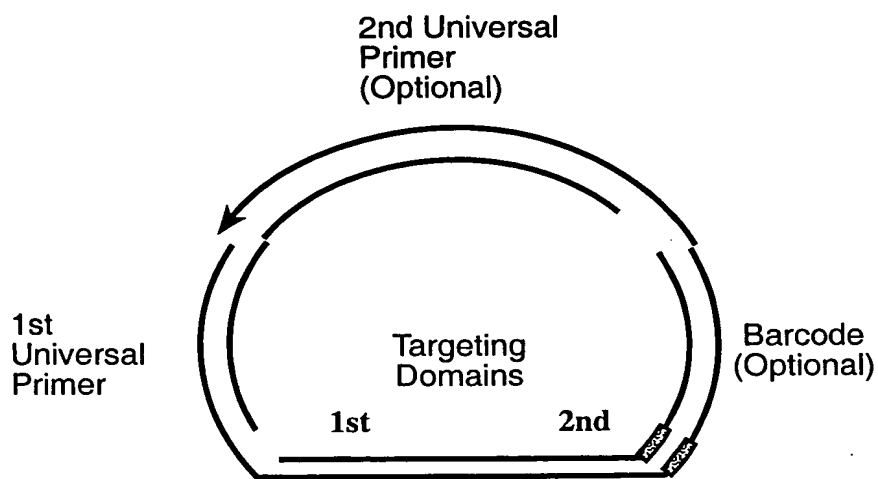
**FIG.\_5D**

## Extending the first universal primer to form an extension product



**FIG.\_5E**

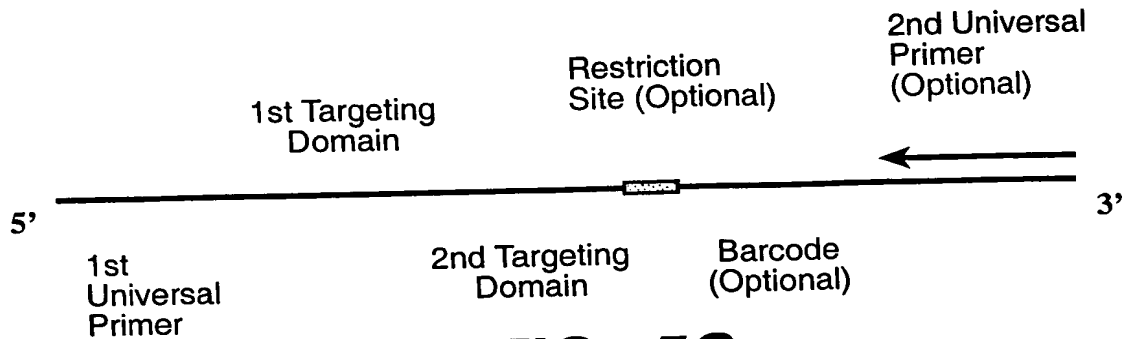
## Cleaving the probe at the cleavage sites



**FIG.\_5F**

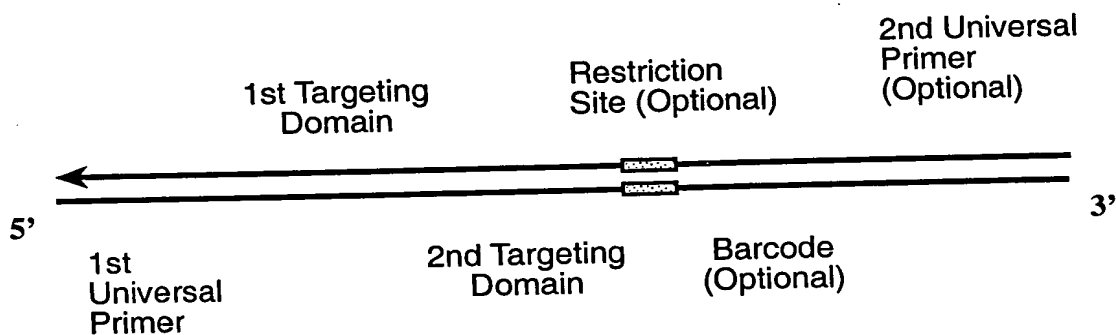
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### Annealing the 2nd universal primer to the extension product



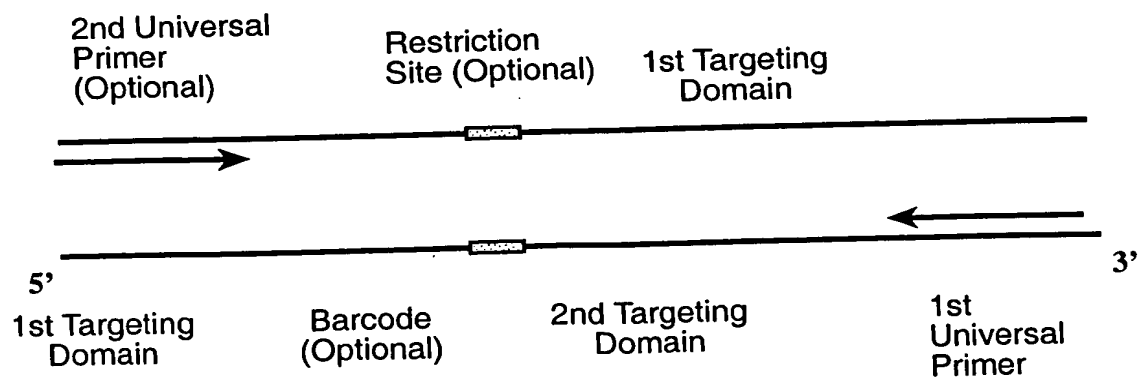
**FIG. 5G**

### Extending the universal primer



**FIG. 5H**

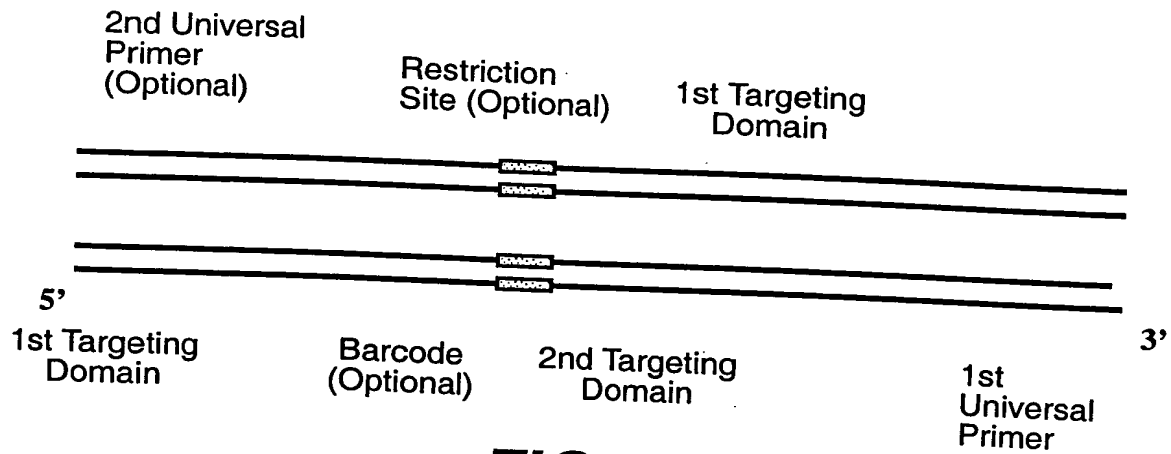
### Annealing the 1st (and 2nd) universal primers



**FIG. 5I**

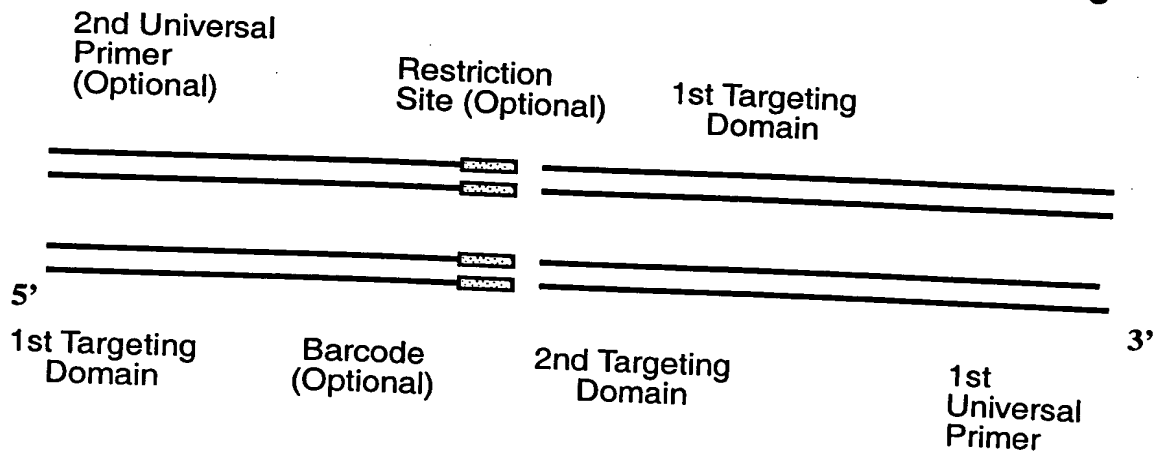
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### Amplifying to form amplicons

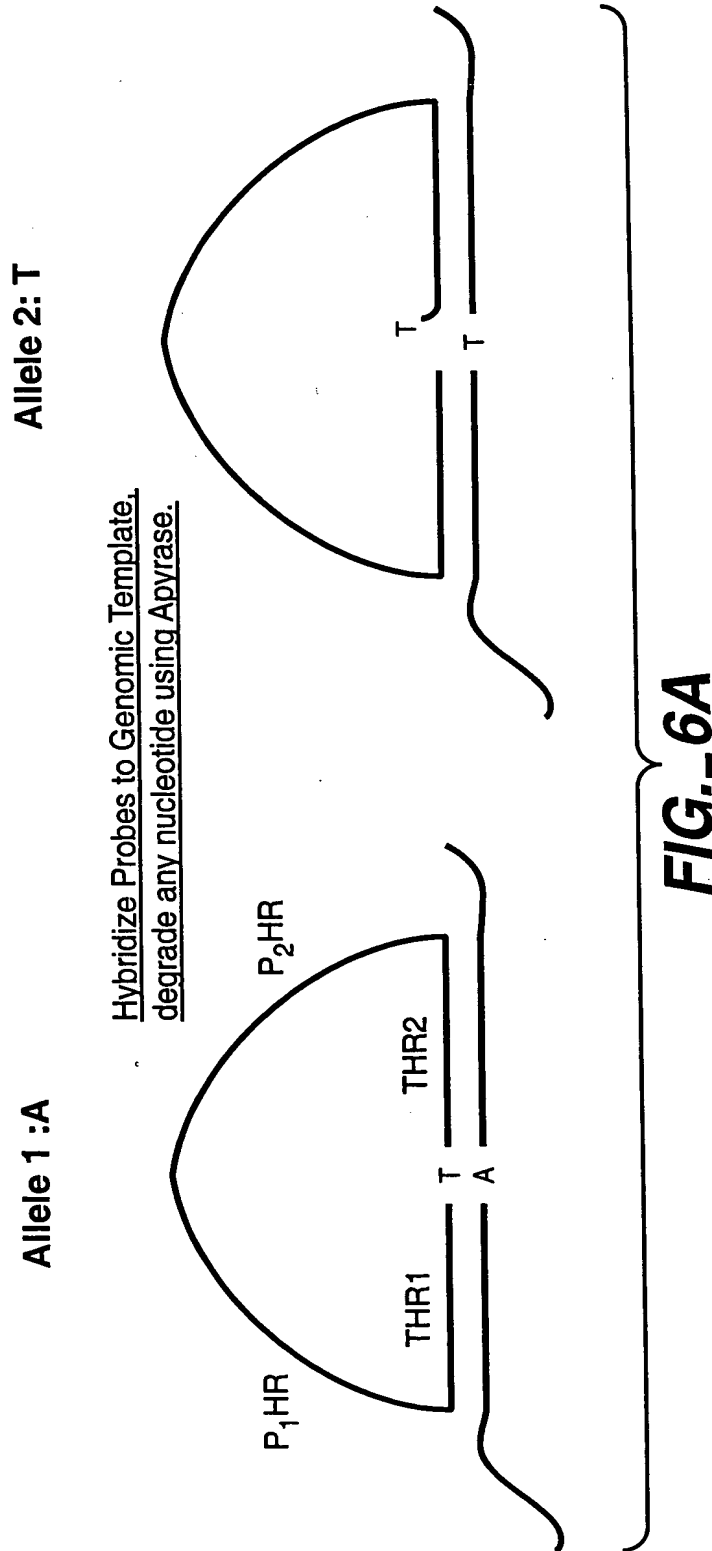


**FIG.\_5J**

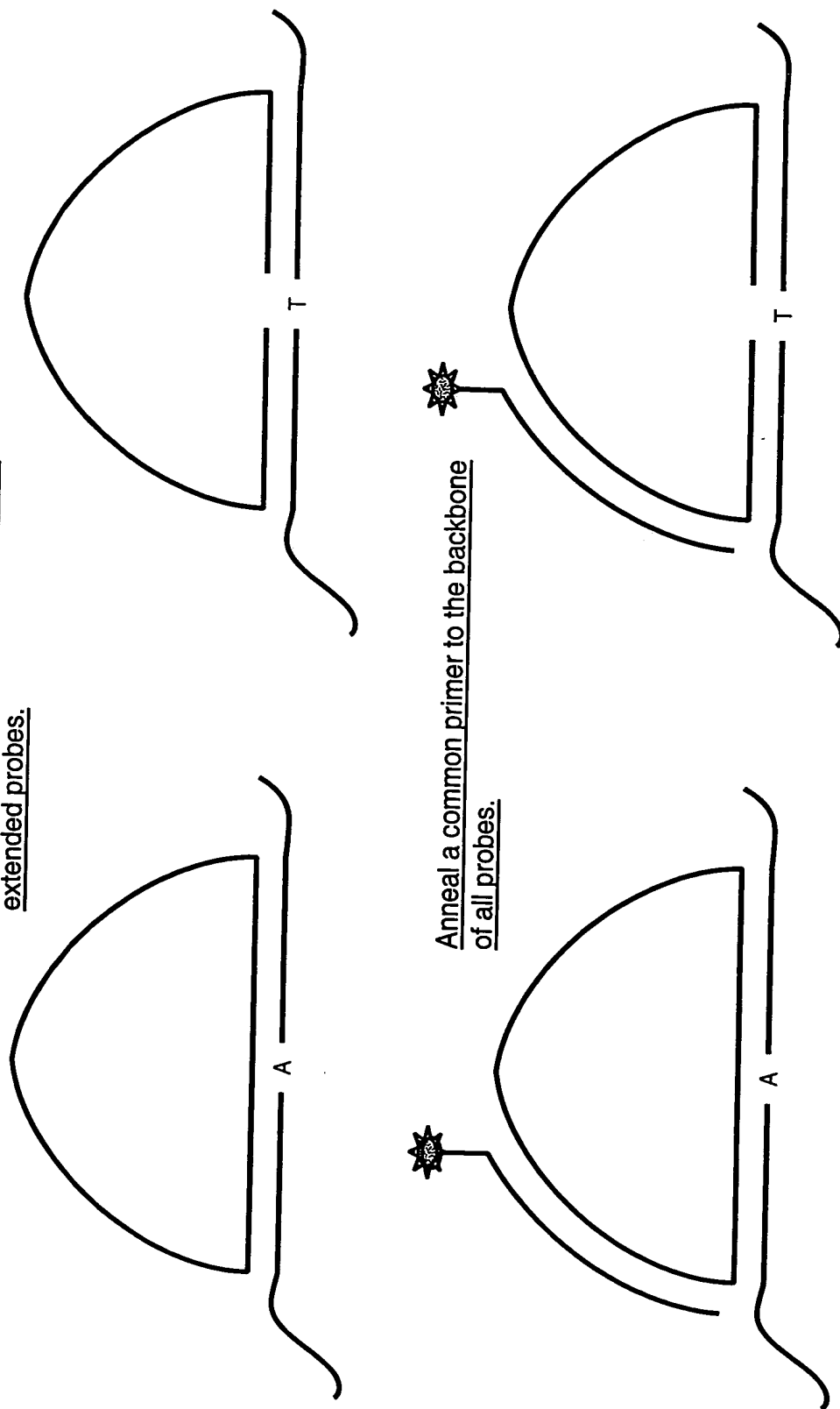
(Optional). Cut with restriction enzyme to release tags



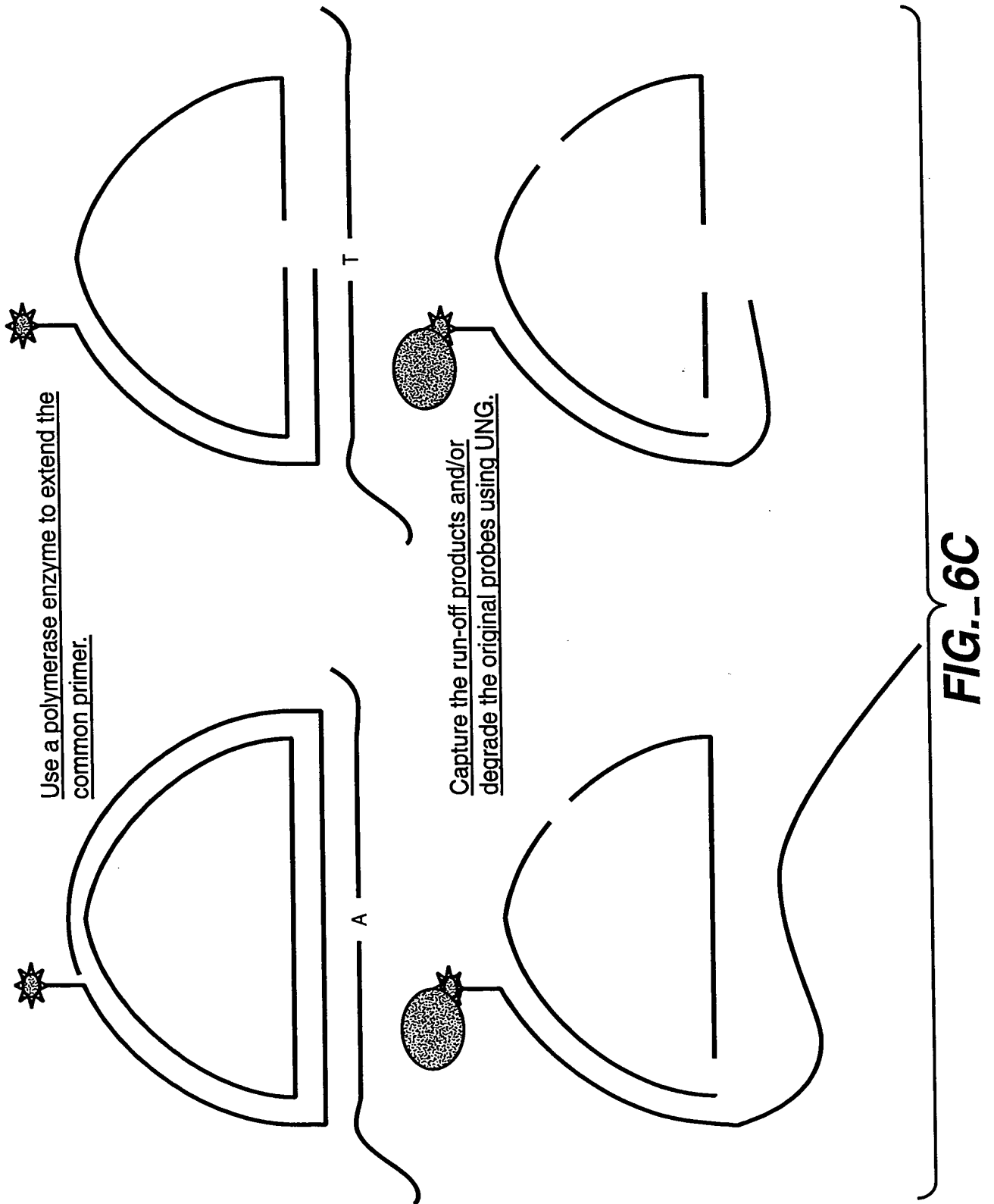
**FIG.\_5K**



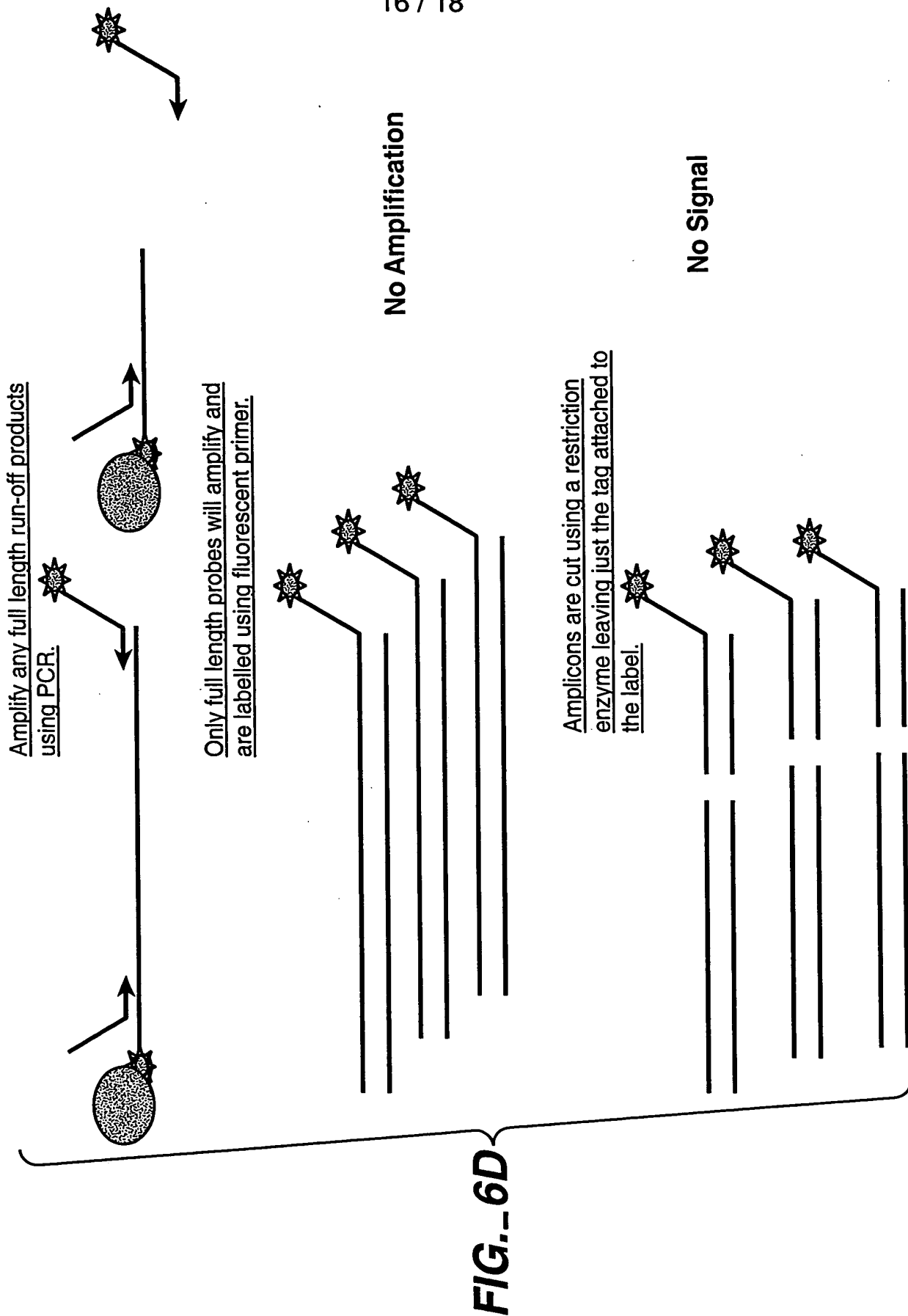
Use a ligase enzyme to circularize any  
extended probes.



**FIG.\_6B**



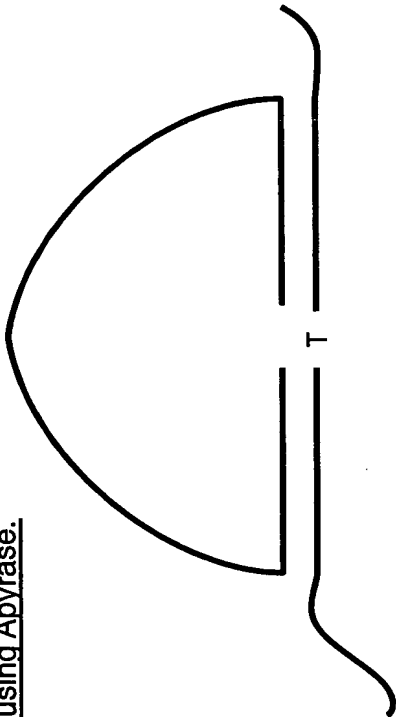
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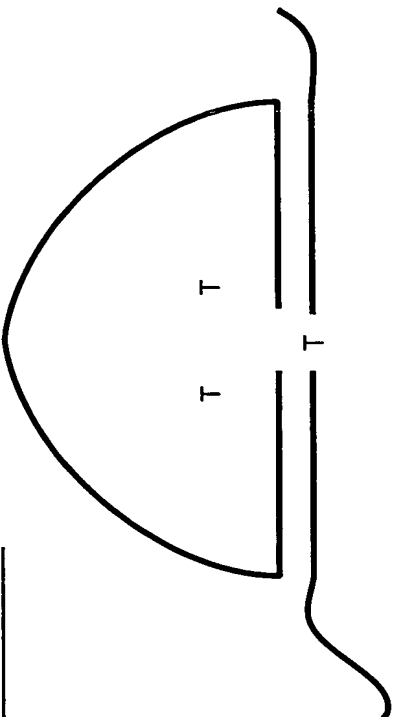


Allele 2: T

Hybridize Probes to Genomic Template,  
degrade any nucleotide using Apyrase.



Use a polymerase enzyme to extend one  
base in the presence of one nucleotide.



Allele 1: A

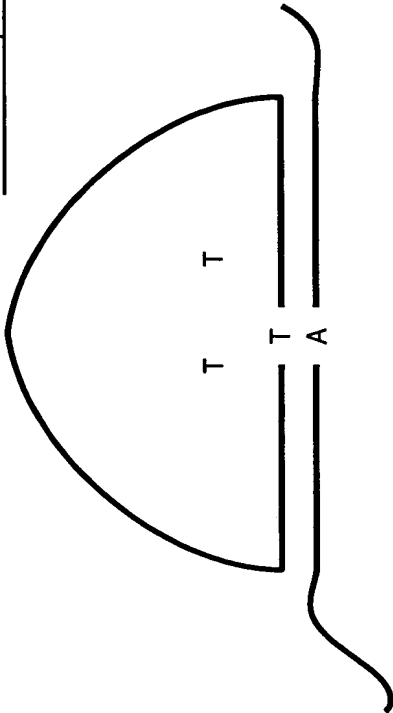
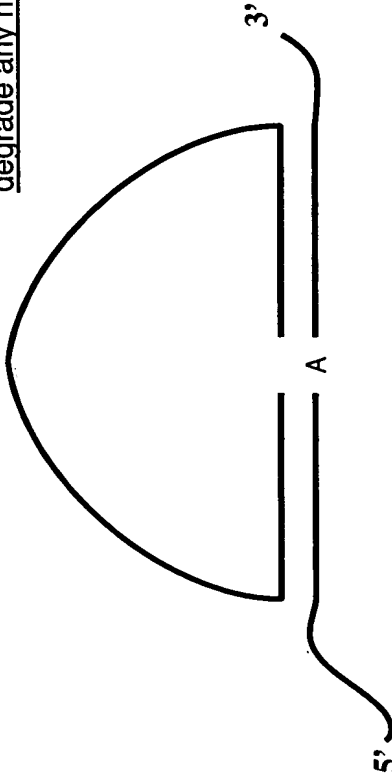


FIG. 7

